What is claimed is:

1. A voice-over-Internet protocol (VoIP) device, comprising:

a subscriber line interface circuit serving as an interface for communications with a telephone;

a relay selectively coupled to a public switched telephone network (PSTN) or coupled to a VoIP network through the subscriber line interface circuit;

a processor coupled to the subscriber line interface circuit to determine whether a transmission from the telephone through the subscriber line interface circuit is a PSTN phone number or a VoIP phone number, wherein when the transmission is a VoIP phone number, the processor routes the transmission to the VoIP network, and when the transmission is a PSTN phone number, the processor instructs the subscriber line interface circuit to generate a dual-tone multi-frequency redial number; and

a dual-tone multi-frequency coupling circuit coupled between the subscriber line interface circuit and the public switched telephone network for receiving the dual-tone multi-frequency redial number from the subscriber line interface circuit when the transmission is determined as a PSTN phone number, and routing the dual-tone multi-frequency redial number to the public switched telephone network.

2. The voice-over-Internet protocol device of claim 1, wherein the dual-tone multi-frequency coupling circuit comprises:

a switching element having a first terminal and a second terminal and controlled by the processor, wherein the switching element is turned on by the processor when the transmission is determined as a PSTN phone number;

a first coupling device coupled between the subscriber line interface circuit and the first terminal of the switching element for receiving the dual-tone multi-frequency redial number from the subscriber line interface circuit; and

a second coupling device coupled between the second terminal of the switching element and the public switched telephone network for routing the dual-tone multi-frequency redial number to the public switched telephone network when the switching element is turned on.

3. The voice-over-Internet protocol device of claim 2, wherein the first coupling device is a capacitor.

4. The voice-over-Internet protocol device of claim 2, wherein the second coupling device is a transformer.

5. The voice-over-Internet protocol device of claim 2, wherein the switching element is a transistor.

6. The voice-over-Internet protocol device of claim 1, further comprising a data access arrangement for detecting the status of the public switched telephone

network and instructing the relay to allow the dual-tone multi-frequency coupling circuit to transmit the dual-tone multi-frequency redial number to the public switched telephone network when the public switched telephone network is not busy.